

SECURITY INFORMATION
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INFORMATION REPORT

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COUNTRY USSR (Krasnodar Krai)

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SUBJECT Hydroelectric Power Plant at Krasnaya Polyana

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PLACE
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SUPPLEMENT TO
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1. Location:

Several kilometers southwest of Krasnaya Polyana (40°13'E/43°41'N), Krasnodar Krai, northwest of a small river. For location see Annex.

2. Plant installations:

a. The construction started in May 1947 with a small power plant for construction requirements on a steep slope, north of Krasnaya Polyana. This small plant, completed in early 1948, had one turbine, capacity 700 kw.

b. The construction of the main power plant progressed in three stages:

(1) Reservoir with dam and lock house, settling basin, canal and tunnel.

(2) Lock house at tunnel exit, construction of water pipes in the tunnel, pipe lines and bridges for pipe lines.

(3) Water tower, lock house, turbine house, chute pipes, transformer station and discharge canal.

c. The plant started operation on 1 May 1949 with two alternately working turbines which, according to a German engineer, came from a power plant near Dresden. Foundations and connections for the installation of two additional turbines were completed but the turbines had not arrived.

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d. A second reservoir was under construction after the Summer of 1949. According to German engineers, 30,000 cbm earth was to be moved. "All of the required excavations was done and a lock-house (30 meters long and 14 meters high) with connections to the chute pipes was completed. The reservoir will have an almost round shape and a diameter of 200 to 250 meters.

e. After four weeks of operation the casing of the throttle plates broke on the branch point of pipe lines in the lock house so the water fell 40 meters down the steep slope to the turbine house and damaged one turbine which had to be repaired and resumed operation only after four to six weeks. The other turbine also had to be repaired three weeks later. Thus, full operation was resumed only in December 1949.

f. Soviet and German laborers stated that the small mountain river was utilized by several additional power plants.

3. Work force:

No details available.

4. Capacity: The turbine capacity of 6,800 kw each was determined from inscriptions on the two turbines.
5. In July 1949 the power plant had two turbines with a diameter of 4 meters. They came from Dresden, according to their inscriptions, and were installed in the northeast section of the turbine house, in line with foundations for two additional turbines.

1 Annex: Hydro-Power Plant in Krasnaya Polyana.

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Append to Annex:

- 1 Small power plant with one turbine, capacity 700 kw
 - a Water tower
 - b Pipe line
 - c Discharge canal
- 2 Dam and lock house with two lock gates, reservoir depth 10 meters
- 3 Canal
- 4 Settling basin
- 5 Concrete canal
- 6 Tunnel, 600 meters long
- 7 Lock house at tunnel exit
- 8 Pipe line, 3,200 meters long, 3.2 meters in diameter
- 9 Bridge for pipe line across a mountain river
 - a Small tunnel, 80 meters long
- 10 Water tower, 40 meters high. When reaching 30 meters, its water level was equal with that of the reservoir. The tower is to equalize the water pressure
- 11 Lock house
- 12 Two chute pipes, 2.2 meters in diameter, 40 meters incline. Total incline from reservoir to lock house (11) 70 meters and 110 meters from reservoir to turbine house
- 13 Turbine house with two turbines and two foundations for turbines
- 14 Transformer station, with two transformers each weighing 40 tons. Foundations for two additional oil transformers. Power transmission line, trolley masts supporting six copper cables, leads along the road to the southwest.
- 15 PW Camp No 7144/15
- 16 Reservoir under construction, almost round, 200 to 250 meters in diameter
- 17 Lock house, 30 meters long, 14 meters high
- 18 Earth dam under construction
- 19 Pipe line
- 20 Bridge for pipe line across the mountain river, under construction
- 21 T-shaped connection to the main pipe line.

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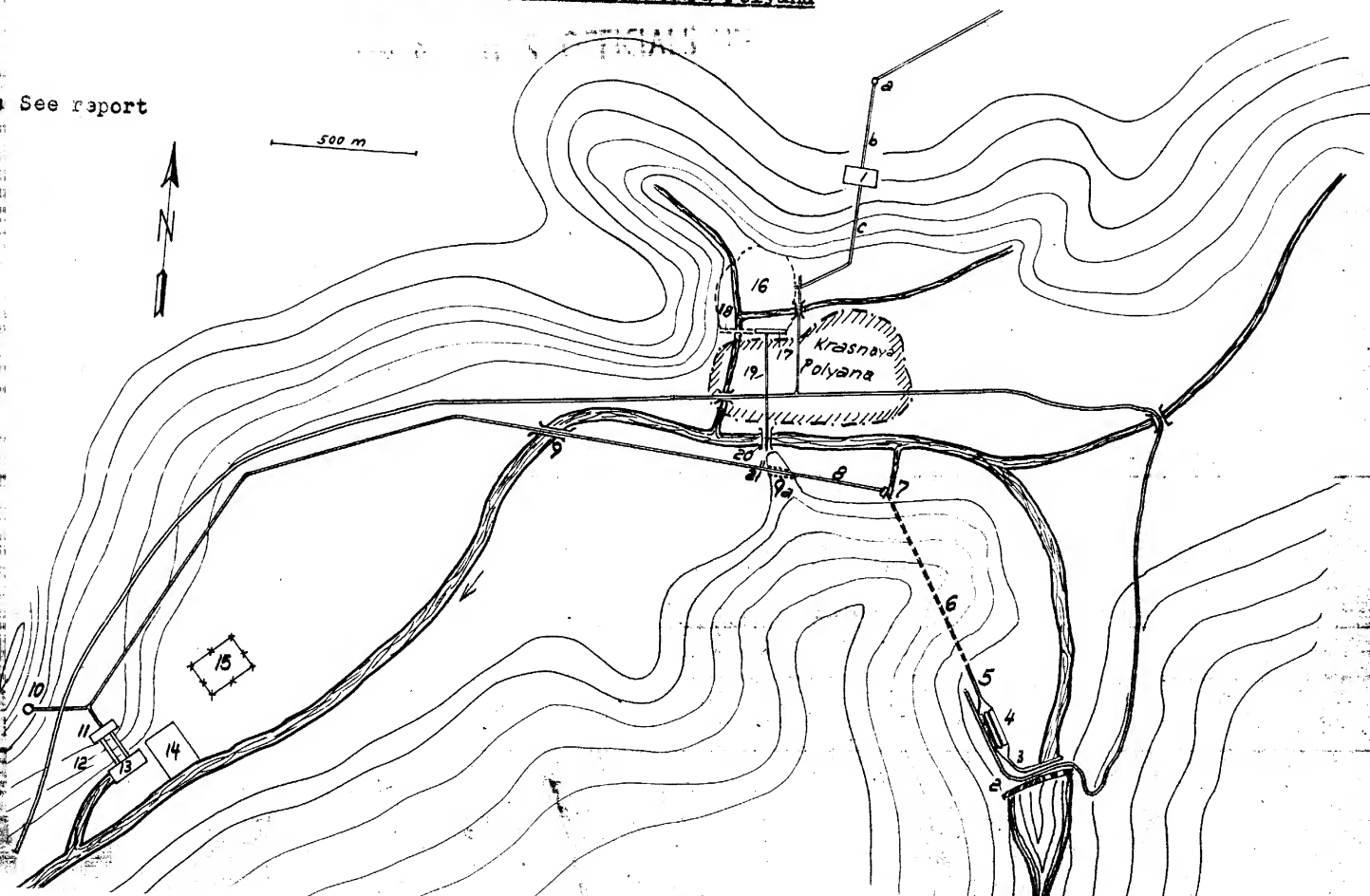
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Hydro-Power Plant in Krasnaya Polyana

Legend: See report



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